

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 04/08/2010, 08/22/2010

LOCATION: GIBBON  
STREAM: WOOD RIVER  
BASIN: PLATTE 9

HSA: GID

REFERENCES:

FLOOD PLAIN INFORMATION STUDY - WOOD RIVER AT GRAND ISLAND - AUG 1964  
FLOOD REPORT SOUTH CENTRAL NEBRASKA - JUN 1968 BY NEBRASKA SWCC  
USGS FORM 9-197  
USGS STATION DESCRIPTION - 6/12/91  
WATER RESOURCES DATA FOR NE - USGS  
WS FORM E-19 - DEC 1981

ABBREVIATIONS:

BM - bench mark	EPA - Environmental Protection Agency
DS - downstream	IBWC - International Boundary and Water Comm.
US - upstream	MSRC - Mississippi River Commission
HW - high water	MORC - Missouri River Commission
LW - low water	NOAA - National Oceanic and Atmospheric Admin.
RB - right bank	NOS - National Ocean Survey
LB - left bank	NWS - National Weather Service
MGL - mean gulf level	TVA - Tennessee Valley Authority
MLW - mean low water	USACE - U.S. Army Corps of Engineers
MSL - mean sea level	USBR - U.S. Bureau of Reclamation
MLT - mean low tide	USGS - U.S. Geological Survey
MT - mean tide	USWB - U.S. Weather Bureau
WQ - water quality	NGVD - National Geodetic Vertical Datum
RM - reference mark	NAD - North American Datum
RP - reference point	

LOCATION IDENTIFICATION: GBBN1  
NWS INDEX NUMBER: 25-3210-5  
USGS NUMBER:

MAP OF GAGE LOCATION

LATITUDE: 40 46 17      SOURCE: B44  
LONGITUDE: 98 47 51

LOCATION: WOOD RIVER near GIBBON , NE  
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NWS FORM E-19 PAGE 1: GAGE MAP

## BENCHMARKS

ELEVATION OF GAGE ZERO: 2024.880      VERTICAL DATUM: NGVD 1929  
LEVELING AGENCY AND DATE:      CHECKBAR: 19.900  
RATING AGENCY: USGS

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
RM1	A STANDARD TABLET 200 FEET LEFT (NORTH) OF LEFT END OF BRIDGE, AND 20 FEET UPSTREAM (WEST) OF CENTERLINE OF ROAD, ABOUT 6 FEET NORTHEAST OF LARGE LOCUST TREE. COULDN'T FIND THE BENCHMARK.	15.580	2040.460
RM2	A STANDARD TABLET SET IN CONCRETE AT SOUTHWEST CORNER OF SOUTH STEPS OF SCHOOL HOUSE. LIKELY GONE.	16.450	2041.330
RM3	A STANDARD TABLET SET IN CONCRETE POST ON THE NORTHEAST CORNER OF ROAD HEADING EAST (JUST PAST NORTH END OF BRIDGE OF GAGE LOCATION). LOCATED 80 FEET LEFT OF LEFT END OF BRIDGE AND 29 FEET DOWNSTREAM FROM CENTERLINE OF ROAD.	16.380	2041.260

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## GAGES

DCP

TELEM

NESS ID:  
OWNER:  
REPORT TIME:  
INTERVAL:

TYPE OF TELEMETRY: Unk  
OWNER: Unk  
PHONE NUMBER:  
INTERVAL:  
PAYOR/COST OF LINE: Unk / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
wireweight	NWS	NWS	04/01/1949		THE USGS ESTABLISHED THE STATION WITH INSTALLATION OF WIRE WEIGHT GAGE AT PRESENT SITE AND DATUM. WIRE WEIGHT IS ATTACHED TO RAILING OF DOWNSTREAM SIDE OF COUNTY ROAD BRIDGE. USGS LEFT GAGE TO NWS IN 1976.
Unk	USGS	USGS	07/26/1949	09/01/1976	A STANDARD 48" CORRUGATED PIPE SHELTER AND WELL, AND A-35 RECORDER WERE INSTALLED ON THE LEFT BANK, SOME 10 FT. DOWNSTREAM FROM COUNTY ROAD BRIDGE. FROM 1972-1976 AN ADR RECORDER WAS ALSO HOUSED IN THE GAGE SHELTER AND WAS REMOVED IN 1976.

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# HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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WRD NE	04/01/1949	09/01/1976

  

TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
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wireweight	NWS	04/01/1949	
Unk	USGS	07/26/1949	09/01/1976

  

ZERO ELEVATION	STARTING DATE
-----	-----
2024.880	01/01/1929
2024.880	04/01/1949

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## CRESTS

FLOOD STAGE: 15.00      ACTION STAGE: 13.00      BANKFULL STAGE: 0.00  
FLOOD FLOW: 900      ACTION FLOW: 647

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS
06/09/1949	UNDEF	15.63	1600				
07/10/1950	UNDEF	15.74	1680				
07/19/1958	UNDEF	15.20	1140				
03/28/1960	UNDEF	16.14	2100				
07/01/1965	UNDEF	16.23	1480				
06/15/1967	UNDEF	16.79	4050				RECORD FLOOD.
06/24/1968	UNDEF	16.04	1140				
03/20/1969	UNDEF	15.83	1420				
06/16/1970	UNDEF	8.66	172				
02/28/1971	UNDEF	10.63	280				
07/27/1972	UNDEF	10.49	239				
09/29/1973	UNDEF	7.11	88				
10/11/1973	UNDEF	6.40	58				
06/23/1975	UNDEF	13.40					
07/23/1975	UNDEF	13.38	603				
06/25/1976	UNDEF	6.28	68				

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LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
06/01/1949	0.00	0	NO FLOWS COMMON IN LATE SUMMER THRU FALL.

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CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 36.0      DRAINAGE AREA: 572.0      POOL STAGE: 0.0

STREAM BED: COMPOSED MAINLY OF SAND AND SANDY CLAY.

REACH: A FEW MILES UPSTREAM AND DOWNSTREAM OF GAGE.

REGULATION:

DIVERSION: DIVERTED BY NUMEROUS PUMP IRRIGATION.

WINTER: CHANNEL SUBJECT TO FREEZING.

TOPOGRAPHY: CHANNEL IS NARROW WITH STEEP BANKS. GRADUAL FILLING OF CHANNEL IS TAKING PLACE WITH TIME. CHANNEL MEANDERS CONSIDERABLY AND REMAINS IN ITS NATURAL STATE, WITHOUT LEAVING ANY LEVEEING OR STRAIGHTENING. FLOOD PLAIN IS ABOUT 7 MILES WIDE.

REMARKS:

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DAMAGE

STAGE	AREAS AFFECTED
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15.00	FLOOD STAGE - LOWLAND FLOODING BEGINS
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16.00	MORE LOWLAND FLOODING TAKES PLACE.
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16.50	THE TOWN OF GIBBON MAY BE THREATENED FROM THE WEST BY FLOOD WATERS.
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19.00	AT 19 FEET THE COUNTY BRIDGE ROAD IS THREATENED...AND TWO HOUSES JUST NORTH OF THE GAGE.
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# RIVER STAGE DATA

	23-	
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	21-	
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	19-	
19.00 - AT 19 FEET THE COUNTY BRIDGE ROAD IS THREATENED...AND TWO HOUSES JUST NORTH OF THE GAGE.	-----	
	-----	
	17-	
16.50 - THE TOWN OF GIBBON MAY BE THREATENED FROM THE WEST BY FLOOD WATERS.	-----	16.79 06/15/1967
16.00 - MORE LOWLAND FLOODING TAKES PLACE.	-----	16.23 07/01/1965
	-----	16.14 03/28/1960
	-----	15.74 07/10/1950
	15-	15.20 07/19/1958
15.00 - FLOOD STAGE - LOWLAND FLOODING BEGINS	-----	
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	13-	13.40 06/23/1975
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	11-	
	-----	10.63 02/28/1971
	-----	10.49 07/27/1972
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	9-	
	-----	8.66 06/16/1970
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	7-	7.11 09/29/1973
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	-----	6.40 10/11/1973
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	5-	
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	3-	

REACH: A FEW MILES UPSTREAM AND DOWNSTREAM OF GAGE.

ELEVATION ZERO: 2024.88

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# CONTACTS

SQ	CONTACT/REMARKS	PHONE
1	JIM BOLIN	308-380-2022
2	WFO GID	402-462-2127
	WFO GID MAINTAINS EQUIPMENT.	

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